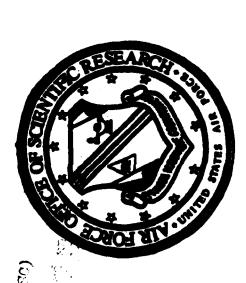
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

QUARTERLY STATUS REPORT RESEARCH PROPOSAL

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OCTOBER 1991



INTRODUCTION

The Research Proposal Quarterly Status Report is published in March, June, September, and December by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR in the previous six months along with the action taken (Initiated, Declined or Withdrawn) on each report. The report is divided into two parts. The Institution index lists proposals alphabetically by institution. is followed by a more detailed listing by Directorate, and by Program Manger within the Directorate.

PURPOSE

the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of special programmatic emphasis.

AFOSR MISSION

fundamental scientific research. The AFOSR is organized under the Air Force Systems Command, DCS/Technology. The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of

originality, significance to science, the qualification of the principal investigators, and the reasonableness of principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, Research is selected for support from proposals received in response to the Broad Agency Announcement from AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. scientists investigating problems involving the search for new knowledge and the expansion of scientific

KEY TO READING THE DATA

IIILE - The title of the research proposal

INSTITUTION - The organization, (e.d., college/university, company) at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort. - R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR

- BLANK SPACE = indicates the proposal is being reviewed.

- W=WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request. PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal. PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal

INITIATE - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

STARI DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

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NCITUTION	INVESTIGATOR	TOR THEM PROFIT	3	PROPOSAL	STATUS	PM NAME
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	White	กลต		91-NL-142		STOBIE
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of Notice		# L	ں ،	91-NA-215	⋖	FANT
of Oklaho	Entro:	Deborah	¥	91-NE-255		KELLEY
Univ of Oregon	Beck	Jacob		91-NL-129	,	TANGNEY
Univ of Pennsylvania	Constant	Barry	s	91-NM-336	⋖	HOLLAND
400000000000000000000000000000000000000	Hushin	Sanford	4	91-NE-243		ERSTFELD
5	The same of the sa	Charles	′ ≪	91-NM-341		NACHMAN
	Tates	John	-	91-NC-221		BURGGRAF
Univ of Rhode Island	Shones	I		91-NA-212		BOYCE
Univ of Rochester	Нэ1.1	Denni s	()	91-NE-209		POMRENKE
•	Kybero. Jr	Heary	ш «	91-NM-382	<	
Univ of south Florida	GIIDOLI	DIPLOTY	ď	91-NI-147	C.	FREGLY
	Start	Louise		91-NH-307	<	MAKSMAN
Univ of Tennessac	10.00 mm. 10.00	; 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		91-NE-233		BARKER
				91-NE-243	•	BARKER
	Mamantov	61eb	,	91-NC-265	⋖・	WILKES
	Saylor	Gary	v	91-86-125	٠ ٠	LEKVENT
Univ of Texas	Arapostathis			91-NM-325	⋖	
		J. Mestey Danie	14	91-NM-333		HOLLAND
Univ of Toronto	Pigott	or T)	91-NA-234		BOYCE
0	Harris	Frank	'n	91-NE-229		BARKER
	Johnston	William	⋖	91-NL-133		FREGLY
Univ of Versont	Oughston		G1	91-14-355	•	NACEMAN
Univ of Virginia	Horan	Cornelius	o (91-NF-353	<	
	しためま		,	91-NE-227		POMMENSE
	320	Elias		91-NE-226		POMRENKE
Univ of Washington	Hernandez	6012310		91-NL-150		STOBIE
	Ly	Uy-Loi	:	91-NN-16	•	
Univ of Wisconsin	CH EDH ED	SEROLL	3 6	0011H-16	4	CAVENDER
	10X0	Chartes	¥ (,	91-NF-260		KELLEY
			, w	91-NA-216		BOYCE
		Richard	ļ	91-NC-227		ERSTFELD
University of Idaho	Taylor	Patrick	Q L	91-NC-249		BURGGRAF
40	Prescott	Glenn	u	91-NM-381		SJOGREN
Utah State University	A 1 1 1 1 1		3	91-NL-138	•	STOBIE
	Kawasura	Kazuhiko			< •	CAVENDER
Commonwealth University	JeLorenzo	Robert	¬) •	91-Nt-123	< <	LEKVENT
Virginia Polytechnic Inst & State Univ		CE 07	€ 3	- NA-24	l e	
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INSTITUTION	INVESTIGATOR	ATOR FIRST NAME	MIDDLE	PROPOSAL	STATUS	PH NAME
Warner Robins Air Logistics Center	20025101	Daniel	U	91-NM-338 91-NA-230	⋖	JACOBS
Washington State University	Dickinson Whitney	J Thomas Paul		91-hA-278 91-NL-148		WU FREGLY
Washington University	Hickerhauser	M. Victor	•	91-NM-329	∢	SJOGREN
	Levis	Robert	(")	91-NC-218		BURGGRAF
Wells Research Corp	Reiter	Elmar	œ	91-NL-136		STOBLE
West Virginia University	Napolitane	Marcello	~	91-NA-217		O.A.
	Tesksbury	Stuart	¥	91-NE-237		HITT
destern Michigan University	Alavi	Yousef		91-NM-357		GLASSMAN
Morcester Polytechnic institute	Klein	Michael	38	91-NI-037	4	BOLAND
Wright State University	240	Nicholas	>	91-NL-124	4	CERVENY
	Vosa	Daniel	-	91-NM-374		SJOGREN
Y. Y. Yu Associates	Ϋ́	>	>	91-NA-275		28
Yale University	rennot:	William		91-NF-228		SCHLOSSBER
	P.jolsness	Sric		91-NM-363		SUDDARTH
	Moody	John		91-NM-343		SUDDARTH
	Smooke	Mitchell	٥	91-NM-379		JACOBS

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	TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT ANT
	SURFACE DAMAGE PHENOMENA AND Behavior of Rock Joints Univ of Wisconsin	AND THEIR EFFECT ON THE MECHANICAL Fleshe	Michael	N 36 11/07/91 \$363,200	90YCE 91-NA-216	
_	DYNAMICS CONTROL AND MANEUVER REFLECTORS. TELEROBOTS AND EXHOWARD University	- CONTROL AND MANEUVERING OF LARGE FLEXIELE SPACE TETHERED IS. TELEROBOTS AND EXPERIMENTAL MODELS (M3CU) Inversity	G 6 6 7	R 36 15/07/91 \$395,705	A 91-NA-220	\$125,916 01/01/92 \$395,705
	FRACTURE MECHANICS OF FUNCTIONALLY Lehigh University	ONALLY GRADIEST MATCRIALS andogon	Fazil	6 36 15/07/91 \$335,129	BOYCE 91-N4-224	
	INTERFACE MECHANICS OF PARTIC	PARTICULATE MEDIA MITH FISHED INCLUSIONS HPYGÉR	20 man	N 12 23/07/91 \$97,795	80YCE 91-NA-227	
	AEROELASTIC TURBULENC: 2N7 HI Duke University	HIGH-DIMINSIONAL CHAD. Virgin	Laffence	N 30/07/91 \$233,962	WU 91-NA-233	
	MEGDSTRUCTUFFS AND MESOMECHANICS Univ of Toronto	WICS IP AGROSPACS ANVARGED PAGNOTA	e: I	N 35 31/07/91 8325,000	90YCE 91-NA-234	
_	ON THE WALL JET IN STREAMING FLOW UNIV OF ALIZONE	FLO# #Yanunskı	lsrael	2 05/08/91 \$106.784	A B MCMICHAEL 91-NA-235	\$106.784 01/01/92 \$106,784
	A SIMPLE ANT PELIABLE ALGESPATC MODIFIED MIXING-LENGTH CONCEPT Univ of Akron	AIC TURBULENC? MODEL SASTE ON A PT Loonard	a) 0-	N 24 06/08/91 \$117,503	MCMICHAEL 91-NA-236	
_	INTERGOVERNMENTAL PERSONNEL ACT (IPA) Univ of Illinois	ACT (IPA) Soteis	2047	N 15/38/91 \$20,083	A JONES 91-NA-241	\$7.637 08/09/91 \$30.549

REPORT DATE 11/06/32	PROPOSAL STATUS REPORT (1 JUL 91 AIM FORCE OFFICE OF SCIENTIFIC RES DIRECTORATE OF ALAUSPACE SCIENCES	91 - 30 SEP 91) RESEARCH		PAGE 2	
TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE Start date Tot am
DIRECT NUMERICAL SIMULATION OF ACOU ROCKET MOTORS Univ of Colorado	ACOUSTIC-FLCW INTERACTION IN SOLID Manalingum	Shankar	N 24 11/09/91 \$60,000	BIRKAN 91-NA-263	
CAASERT) INTERFACE MICROSTRUCTURE MICROWAVE CURING Univ of Michigan	MODIFICATION OF GAP GRADING AND	Victor C	N 36 13/09/91 \$308,250	NU 91-NA-266	
AFOSR WORKSHOP ON SUPERMANEUVERACILITY Lehigh University	Aoc⊀∎ell.	Donald	N 09 19/09/91 \$5,200	A FANT 91-NA-269	\$5,200 01/11/91 \$5,200
THE EFFECT OF A FLEXIBLE FIRER COVER FLOW AND HEAT TRANSFER DUKE University	R ON COMPROLLINS ROUNDARY LAVER Decise	Adrian	N 36 20/09/91 \$61,000	A FANT 91-NA-270	\$11,000 01/02/92 \$61,000
DYNAMIC AMALYSIS DF TOPCLOSTCAL CHA Infraittent modes of operation Univ of Illinois	CHANSES IN MECHANICAL SYSTEMS WITH ABLIGGER	Farid	N 36 23/09/91 \$256.589	NU 91-NA-273	
EVOLUTION AND INSTABILITIES OF A CRACK EXPENIMENTAL AND THEORECTICAL STUDIES Univ of Illinois	RACK WITH A PROCESS 20NS. LES. Chudnowsky	ব	N 25/09/91 \$351,755	JONES 91-MA-277	
COMPUTER SUPPORT FOR PAY COSNER, MC Air Force Weadons Leu	MCALR	Mary Ann	N 12 11/09/91 \$10,006	SAKELL 91-NA-264	\$16,444 01/10/91 \$16,444
COMPUTER SUPPORT FOR PAY COSNER MCAIR Air Force Weedons Lab	n ⊕ ? ≈ ₩ tr 1 #	Mary Ann	11/09/31 11/09/31 \$10,000	A Sakell 91-na-265	\$10,000 01/10/91 \$10,000
MORKSHOP ON MULTIPLE SITE DAMAGE IN Warner Robins Air Lojistics Center	TOTAL BIRCABET	ù an i e l	N 04 26/07/91 \$20,000	A WU 91-NA-230	\$20,000 10/08/91 \$20,000

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C16 43 08 - 18 700 1 1 2 2 3 2 2 3 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	AIR FORCE DEFICE OF SCIENTIFIC RESEARCH	DIRECTORATE OF APPOSPACE SCIENCES
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START DATE \$23,132 \$62,759 INITIATE \$118,748 01/11/91 \$372,269 01/11/91 TOT ANT PROGRAM MANAGER 91-NA-274 PROPOSAL . SAKELL 91-NA-229 91-NA-257 91-NA-223 91-NA-278 91-NA-221 STATUS TISHKOFF SAKELL ⋖ 3 3 3 TYPE/MONTHS R 36 26/07/91 RECEIVED \$142,245 \$132,893 25/09/91 \$170.031 \$62.159 23/09/91 \$405.808 29/08/91 15/01/91 \$372,269 15/01/51 AMOUNT J Thomas Xiaolin Rainald Forman 7017 DEVELOPMENT & APPLICATION OF NEW ALGORITHMS FOR THE SIMULATION OF VISCOUS COMPRESSIBLE FLOWS WITH MOVIONG ORICES IN THREE LINENSIONS SURFACE SOUNDARY CONDITIONS AND RELATED FORMICAL ISSUES CONCERNING EURNETF EQUATIONS FOR TWO-BIRENSIONAL HYPERSOUIC FLOW Univ of Calatornia STOCHASTIC LINEARLIRISON AND NONLINEAPLIRITORS SOVICITED AND INVISTAGRADA llienskotf Soudenoff utckinson REACTION RATE ENGINEERING MODILS FOR FATIGUE CRACK GROWTH 41111383 CAASEPTO PRACTO-ESTUDION FROM METAL-CERAMIC INTEPPACE Lonner THEORIES OF TURBULENT COMBUSTION IN HIGH SPEED Kozin, Boadanoff & Associates Inc George Hashington University Florids Atlantic University dashington State University Univ of California TITLE (CONT.) INSTITUTION I M D D O A F L

91-NA-212 91-NA-237 JONES 07/03/91 \$362,502 I DAMAGE EVOLUTION AND FAILURE OF CERAMIC MATRIX COMPOSITED UNDER THERMO-MECHANICAL EMVIRONMENTAL DAMAGE L4 TM, FISEE KIENEDAGES SZSIZSIGMA 1240 TE-145ES METAL MATRIX COMPULITE GOODEN GOODEN seorgia Tech Research Corporation THERMOMECHANICAL LUADI

91-NA-259 MCMICHAEL 03/09/91 \$550,494

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STABILITY OF CIRCULAR VORTICES Unity of Californias Jan Siego

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TITLE (CONT.) INSTITUTION	VVCSTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
THEORETICAL AND NUMERICAL STUDY OF ASYMWETRIE UNSTEADY SLENDER WING VORTICES INCLUDING SPEAKDOWN. UNIV OF NOTFE DAME	TLADY LLX 4ND 21san Robert	N 11/07/91 \$190•450	A FANT 91-NA-215	\$44,484 01/11/91 \$180,450
MICROMECHANICAL STUDY OF THE MACROSCOPIC VISCOPLASTICT CYCLIC LOADING AND NON-ISOTHERMAL CONDITIONS RULDERS, The State Univ. Coll of injing wen.	STICITY UNDER George	N 24 30/07/91 \$137.542	WU 91-NA-231	
CAASERT) WUMERICAL SIMULATION OF THREE LIMPNICOURL SHO TURRULEMT EGUNDARY LAYER Rutgers, The State Univ, Coll of Enjing	SHOCK WAVE - Doyle	N 23/09/91 \$157,619	SAKELL 91-NA-271	
ANALYSIS OF CONTACT PROBLEMS WITH CONSIDERATION OR CHAPS. FRICTION, SUFFACE CONDITIONS AND TOLERANCED Pennsylvanic State University	CHAPL. equadu ashok	P. 36 30/37/91 \$448,353	WU 91-NA-232	
DETAILED STUGIES OF SCOT FORMATION IN LAMINAN CIRCUSION APPLICATION TO MODELING STUDIES Pennsylvanie State University	SIREUSION FLAMES FOR Sobert	N 26/08/91 \$355,500	A TISHKOFF 91-NA-246	\$115,000 15/01/92 \$355,500
(AASEFT) EXPERIMENTAL RESEARCH ON CROSSING SHCCA-WAVE/SOUNDAPY- Layer interections Pennsylvania State University	:/SOUNDAPY- e> Gary	N 24 29/08/91 \$271,177	SAKELL 91-NA-256	
NOVEL LYNAMICS AND CONTOOL ANALYSIS METHODS FOI NOWLINEA Structural systems Texas A and M Research Foundation	NEAS. No.	N 24 29/08/91 \$203 ₀ 022	WU 91-NA-254	
REVISIT INHONOGENZITY PROBLEM VIA MODULUS PERTURUATION FHL INVERSE METHOD OF RICHMICHANICS Northwestern University	V AND USE OF TOSHIO	N 93/07/91 \$258,917	BOYCE 91-NA-213	
SIMULATION IN THE ULTRASONIC SUBMERSION TEST TON LAYERED ANISOTROPIC PLATES HORTCHMESTERN University	Leon	22,08/91 23,08/91 275,367	A JONES 91-NA-252	\$75.307 01/01/92 \$75.307

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	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
STABILITY AND DYNAMIC RESPONS" DE ST. Rotation induced compression Upegon State University	STRUCTURES SURJECTED TO hernrish Alan	N 28/08/91 5173,429	WU 91-NA-253	
MULTIPLE SCALE METHODS FOR STABILITY ANALYSIS Systems Northwestern University	ANALYSIS OF FLUID-STRUCTURE Wing	N 24/09/91 \$293 ₈ 274	WU 91-NA-276	
AND CHADITC VISRATIONS OF SEAMS, PLATES AND SHELLS ASSOCIATED	SANDAICH ARD LAMINATED V	N 36 23/09/91 \$122,660	WU 91-NA-275	
AND TRANSITION OF HIGH-SPEED Univ Research Foundation	ET FLONS OVER FEALISTIC dersent Thorwald	N 07/08/91 \$295+325	A SAKELL 91-NA-238	\$98,350 01/12/91 \$293,325
NTAL MICROMECHANICS OF COMPOSIT Cincinnati	N GEBERALO.	4 15/07/91 \$86,878	BOYC: 91-NA-219	
SHOCK-BOUNDARY LAYER AND UNSTEASY VISCOUS Univ of Cincinnati	SCOUS FLOW INTGRACTIONS RUSIN Stanley	M 36 26/08/51 \$191,025	SAKELL 91-NA-251	
STUDY OF A NAVIER-STUKES COMPUTE:	iosenchuc< bankel	2 5 36 25 08 91 8465 630	SAKELL 91-NA-247	\$70,000 01/12/91 \$539,076
(AASERT) HICROMECHANICS OF HSTEROSENEOUS Princeton University	NEGOS STITILE CSMPOSITES Ju	N 23/08/91 \$116,519	91-NA-255	
STUDIES ON HIGH-PRESSURF AND UNSTEADY FLAME Princeton University	IY FLAME BHEMOMENA Law Chung-Kin-	36 15/09/91 \$375,000	A TISHKOFF 91-NA-268	\$120,000 01/03/92 \$375,000

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INITIATE Start date \$120,000 15/02/92 01/01/92 \$15,000 \$15,000 \$78,000 PROGRAM MANAGER 91-NA-239 91-NA-245 91-NA-260 PROPOSAL 6 91-NA-248 91-NA-258 91-NA-279 91-NA-211 SAKELL JONES SAKELL ⋖ ⋖ BOYCE FANT 3 3 TYPE/MONTHS 30/68/91 03/07/91 60 \$15,000 36 16/80/97 \$274,683 15/60/50 \$256,494 RECEIVED \$273,845 36 26/08/91 \$267,856 09/08/91 30/09/91 AMOUNT z Alexander 3enjamin Raouf рор 111 ZVi JIRECTORATE OF ARROSPICE SCIENCES EXPERIMENTAL AND ANALYTICAL NECHANICAL SCHAVIOR OF MOLLUOK SHELLS SUPERSONIC AND HYPERSONIC TURBULENT SHEAR LAYER STUDIES MAXIMIZING VIOL 6 POST-STAPH FOR US VICTORED AIRCRAFT THE EFFECT OF NONLINGAKITIES ON FLEKISLE COMPOSITE STRUCTURES STOCHASTIC MODAL MULTIFURCATION IN NONLINEAL STRUCTURES RITH INVESTIGATOR THE EFFECT OF MICROCRACKS AND IMPERFECT INTERFACE ON THE THERMOELASTIC RESPONSE AND FAILURE OF COMPOSITED .263110 Isrania Hashin Hayfel. 10-10g しゃつやし SHITS MASA AMES COMPUTER GRAPHICS SIPPORT FOR PARVIL HOIN Virginia Polytechnic Inst & State Univ Technion-Israel Inst of Technology Case Western Reserve University - Ames Research Center dayne State University JULY Of Pennsylvanta Princeton University INTERNAL RESONANCE TITLE (CONT.) INSTITUTION (AASERT) (AASERT) NASA

91-NA-249 3 I RKAN 7 26/63/91 \$120,000 60 23/09/91 ~

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91-NA-272 JONES 115 06 94

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3D ANALYSIS AND VERTFICATION OF FRACTURE GROWTH MICHANISMS IN FISER-REINFORCED CERAMIC COMPOSITES
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PROPULSION RESEARCH OF THE HYBRID PLUME PLASKA FOCKET

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TITLE (COUT.)		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
11000		;		
EXPERIMENTAL STUDY OF SHOCK-VOLTICITY LUTERACTION IN A SUPERSONIC		N 36 17/07/91	SAKELL	
STREAM NOTITUE CONTINUE COLVENIES COLVENIES COLVERNATION COLVENIES	Iraj	4396,545	91-NA-226	
INTERACTION OF TITEULENCY WITH COMPLEX SHOCK MAYES		36	SAKELL	\$96,941
Stanford University	Parviz	34139095	21-NA-214	\$294,533
MICHINGCHANICS FOLICATION OF FAILUPE CATTERIA IN COMPOSITES DESIGN	7	19 60	# 00 € C E	
stanford Iniversity Tsai	stephen	1679,365	91-NA-218	
TURBULLUT SPOT SEMBOATION AND SROWTH TATES IN A CRYPRISSIBLE		35	₩ 2.4 1.4	\$64,975
POUNDARY LAYL Syrscuse Iniversaty	John	\$235°663	91-NA-225	\$235,663
LADSE EDDY SIMULATION OF HEAT FPHUSELR ON TURBING CLADES		% 24 1 € 709791	12 E	
Stanford University	Joel	\$327,365	91-NA-267	
SUPPORT FOR THE COMBUSTION INSTITUTE		2 12 19/08/91	SIRKAN	
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ADVANCED PONLINEAR POLYMERIC OPTICAL MAVEGUIDES JAIV of Florida	AND DEVICES	* œ	N 20/09/91 \$151,845	LEE 91-NG-273	
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PROPOSAL STATUS REPORT (1 JUL 91 - 30 SEP 91) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

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LOW-RESISTANCE, HISH-POWER-FFICIENCY VERTICAL GAVITY MICROLASERS Photonics Assearch **Inc.**	Jack	N 36 23/09/91 \$842,000	CRAIG 91-NE-259	
OF FRACTURE RESISTANCE IN MICROSTRUCTURES OF MATERIALS FOR HIGH TEMPERATURE SERVICE DAVIdson	Divid	4 16/707/91 \$573,500	A ROSENSTEIN 91-NE-210	\$142,000 01/01/92 \$573,500
SENERATION OY HARMONIC FREQUENCY CONVERSION IN	CCRAZS	N 16/09/91 \$960,928	SCHLOSSBER 91-NE-253	
SUPERCONDUCTING HISM TC THIM—TILM VORTEX—FLOW TRANSISTOR Parkview Works, inc.	, ,	24 03/09/91 \$499,757	A WEINSTOCK 91-NE-242	\$187,409 02/01/92 \$499,757
sutler	Jennifer	31 24 21/08/91 5302,888	A Barker 91—NE—231	\$120,000 01/01/92 \$302,888
JACKWARD-WAVE USCILLATOR INVESTIGATIONS IN THE RAMAN REGIME Univ of Now Nexico	Edl	8 16/09/91 \$200,018	A Barker 91-NE-251	\$200,018 01/01/92 \$200,018
INVESTIGATION OF HOVEL HYRRID SUPERCONDUCTORS-SEMICONDUCTOR HETEROSTRUCTURE JUNCTION AND TRANSISTORS State University of Hew Tork	Michael	36 03/07/91 \$230 ₈ 000	A Weinstock 91-Ne-206	\$50,000 15/10/91 \$230,000
ENHANCED QUANTUM DOT MUNLIBEAR OPTICAL MATERIALS 4aterials fechnologies Corporation Pike	John	N 05/08/91 864.428	A CRAIG 91-NE-217	\$63,900 15/11/91 \$64,428
OF CHARGES PARTICLE SYNAMICS IN Zieher	Klaus	N 25/08/91 8169 ₈ 350	BARKER 91-ME-234	

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f ITL &	INVESTISATOR		TYPE/MONTHS PECEIVED AMOUNT	STATUS Program Manager Proposal 4	INITIATE START DATE TOT ANT
AICROMAVE PROPEGATION AND ATTEMBATION IN MAGNETOPLASMAS	CON I'M MAGNETOPLASMAS OGY	Min-Chang	N 12 19/08/91 \$75,000	A Barker 91-NE-221	\$75,000 01/12/91 \$75,000
(AASERT) THECRETICAL AND COMPUTATIONAL IMVESTIGATION OF THE STREAM CYCLOTROM 4ASER 4assachusetts Institute of Tuchnology bekefi	DNAL IMVESTIGATION OF THE DOUGLE	0 DL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N 36 25/09/91 \$150.000	BARKER 91-NE-262	
1-6 CPTICAL MFPORY DISK California Institute of Fechnology	Psaltis	Jemetri	N 36 17/09/91 3339,900	CRAIG 91-NE-256	
AULTI-CHIP MUDULES: DESIGN FOR MAN dest Virginia University	SESISW FOR MANUFACTURABILITY 11y	Stuart	N 26/08/91 \$525,109	WITT 91-NE-237	
MOVIL METHODS OF ACCILLEATION Cornell University	Nation	Lohn	\$ 21,08/91 \$210,000	A Barker 91-NE-230	\$210,000 01/02/92 \$210,000
(AASERT) LONG KANGE PROXIMITY EFFECT IN THIN FILM SUPERCONDUCTORS Cornell University	CT IN THIN FILM SUPERCONDUCTORS Parpia	J	N 04/09/91 \$150,000	WEINSTOCK 91-NE-243	•
INVESTIGATION OF THE PROPERTIES OF THIN FILM SUSTRUCTURES WITH MODIFIED TOFS Cornell University	THIN FILM SUPERCONDUCTING Parpia	Jeevak	36 16/09/19 360,000	WEINSTOCK 91-NE-244	

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\$194,900 01/10/91 \$574,676

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DEVELOPMENT OF THE THEORY AND ALGORITHMS FOR SYN	SYNTHESIS OF		a 36 01/07/91	A NACHIAN	859,184
REFLECTOR WHITING SYSTIMS fatis inc	Oliker	Vladimir	\$235,316	91-88-309	\$231,480
THE FORMULATION & APPLICATION OF A TABU SEARCH F	RAMENDAK TO		24 24 16/10/01	GLAS SHAN	
PRODUCTION SCHEDULING PROBLEMS Intw of Texas	397768	J. Wesley	1610784	91-NM-312	
NUMERICAL HETHODS FOR LARGE CIGENVALUE PROBLELMS	S AND SIFURCATION		4 24	NACHRAN	
AMALYSIS Unit of Minnesota	pees	Youcef	\$335,722	91-NH-313	
THEORY 363 MULTI-SATE CONTROL LYSTEMS GESTEN 3Y	CONVEX		4 36 12/01/91	JACORS	
IPTIMIZATION JOHN OF VIFGINIO	1 the Ker	o	1197,898	91-44-315	
SCALE-SPACE AND FEATURE-JASED ASPECT GRAPHS			N 36 12/01/91	HAKSHAK	
Univ of disconsin	Dyer	Charles	1384,754	91-NH-319	•
SIGNAL PROCESSING FOR TRANSTENT PEATURE EXTRACT)	NOI		N 04	A SJOGREK	15/69/51
- UC LO - LO LO - LO - LO LO - LO LO -	Jagler	Karl	164.191	91-44-320	\$47,991
ADAPTIVE CONTROL OF HONLINGAR AND STOCHASTIC ST	STEMS		N 24 01/08/91	A	15/11/91
Univ of Tixas	Arapostathis	Aristotle	197,134	91-84-325	197,134
STOCHASTIC ADAPTIVE ESTIMATION AND CONTROL			24	JACOBS	15/11/91
Univ of Maryland	Asrcus	of even	197.120	91-NM-327	\$97,120

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INITIATE Start date 01/12/91 \$313,539 \$37,759 01/12/91 \$151,460 \$77,514 TOT AMT STATUS Program manager Proposal # JACO85 91-NM-346 91-NH-350 91-NM-343 91-NH-333 GLASSMAN 91-NM-335 NACHMAN 91-NM-337 91-NM-334 91-NM-339 GLASSMAN SUDDARTH NACHMAN HOLLAND JACOBS TYPE/MONTHS 1313,539 3 36 13/08/91 R 12 19/08/91 20/08/91 1434,290 N 36 07/08/91 :135,485 36 192,850 \$77,514 \$165,624 22/08/91 PECEIVED 16/80/60 9 \$242,301 AMOUNT PRUPOSAL STATUS REPORT (1 JUL 11 - 30 SEP 91) AIR FORCE DEFICE OF SCIENTIFIC RESEARCH JIRECTOPATE OF MATHEMATICAL & INFORMATION SCIENCES P. Robert persid Daniel Robert James Moshe John ~ THE MEASURE OF NONHYPPRADLICITY IN CHAUTIC DYNAMICAL SYSTEMS INVESTIGATOR Khargonek ar SECMETRICAL AND TIPPLOGICAL ASPECTS OF TIME SOMAIN ANTENNA HEW METHODS FOR LAKEE SCALE LOCAL AND GLOSAL OPTIMIZATION THE FORMAL DEFINITION OF IN INHERGRILY UNAMSIGIOUS DESIGN METHODOLOSY Schnabel Kotiu3a Rishel Moody Cooke Sror 40NLINEAR FILTERING FOR OPTIMAL AIR-17-AIR MISSILE SUIDANCE AND SCNTTOL. JALV OF Kantucky NEW NEURAL ALGORITHMS FOR SELF-ORGANIZED LEARNING VEHICLE ROUTING WITH STOCHASTIC DEMANDS INDUST CONTROL AND IDENTIFICATION saston University Univ of Maryiand Univ of Caloraco Jaty of Michigan Yals University Jniv of Arizona TITLE TITLE (CONT.) ENSTETUTION July of Texas いたいいかんだんだん

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\$86,386 01/02/92 \$273,528 START DATE INITIATE TOT AMT PROGRAM MANAGER JAC085 91-NM-369 91-NM-378 91-NM-379 NACHMAN 91-NM-368 PROPOSAL # 91-NM-358 91-NM-360 91-NM-363 91-NM-364 91-NH-355 STATUS SUDDARTH NACHMAN NACHMAN SJOGREN JACOBS JACOBS JAC08S 0 TYPE/MONTHS RECEIVED AMOUNT N 36 06/09/91 17/09/91 \$96,972 \$245,514 17/09/91 \$273,528 16/60/91 16/60/42 R 12 03/09/91 10 \$10,000 36 32 \$132,047 17/09/31 14/60/11 \$104,546 \$322,711 19/69/61 OROPOSAL STATUS REPORT (1 JUL 91 - 30 SEP 91) ALR FORCE DEFICE OF SCIENTIFIC RESEARCH Directorate of Mathematical & information sciences **Demosthenis** Mitchell Mendell Dennis Avner rite Kurt L & @ THE ASYMPTOTIC THEORY OF THE PEFLECTION & TRANSMISSION OF A PULSED LECTROMASNETIC DEAM FIELD AT A OLANAR INTERFACE SEPARAT. TWO DISP ADAPTIVE CONTINUATION ALGORITHMS WITH APPLICATION TO COMBUSTION SPITMAL SCHEBULINS, ROLTING, AND FLOW CONTROL FOR DATA NETWORKS MATHEMATICAL METHODS FOR THE EMPLEMENTATION OF MEURAL NETWORKS CLOSED-FORM SOLUTIONS OF SOME NON-LINEAR PARTIAL DIFFERENTIAL INVESTIGATOR CAASERT) HUMERICAL METHODS AND APPROXIMATION AND MODELLING Tansketzis Bernstein **Mjolsness** ANDILATION SIZE ESTIMATION, WITH APPLICATION TO MIXTURES Friedman Jughston Fleming AATHEMATICAL, COMPUTATIONAL AND Smooke Rubel Bain PROPLEMS ON STOCHASTIC CONTROL THEORY ADBUST TIXED-STRUCTURE CONTROL EMVIRONMENTAL STUDIES: STATISTICAL ANALYSIS Univ of Minnesota Univ of Michigan aroun University unity of Illinois Jniv of Michijan JALV of Missouri fale University fale University into of Virtont (0041.) NCITUTITEM SQUATIONS SHETEDAC TTTE TTTE

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START DATE 05/01/92 \$14,963 \$50,367 \$14,963 \$53,127 01/11/91 INITIATE 01/11/91 \$50,367 STATUS Program Manager GLASSMAN 91-NM-357 GLASSMAN 91-NM-304 91-NM-321 NACHMAN 91-NM-380 91-NM-349 91-NM-306 91-NM-308 91-NM-317 PROPOSAL . 91-NM-382 GLASSMAN SJOGREN WAKSMAN SJOGREN KAKSHAN MAKSMAN ⋖ • TYPE/MONTHS 21/08/91 \$53,127 36 K 13/07/91 21 12 31/07/91 350,367 \$14,963 \$32,106 \$76,320 16/16/16 5543,075 \$403,476 7 12/01/21 16/60/90 RECEIVED 27/09/91 30/09/91 \$575,447 MOUNT Tsu-Shuan Fredarick Laurence Sichard Youset Henry John z ıL JORTEX CORE UMNAMICO, COAPLOX ACLIGAL MANG DECUMPOSITIOIN, DRGANIZ ATION OF FINE—SCALE TURBULENCO O DIMER ROLATIO THEORETICAL STUDIES Jaav of Houston JEVENTH INTERNATIONAL CLUFEZENCT ON GRAPH THEORY. COMBINATORICS. ALGORITHMS AND APPLICATIONS Sinapurmalla INVESTIGATOR SHOEMAS ONE SUCTIONNO SASOTAME ÷ PARTIAL SUPPOST FOR THE SECOND INTERNATIONAL STRPOSIUM ON ARTHEICIAL INTELLIGENCE AND MATHEMATICS Kyberze Hoffman Larmore | arudan ATSTARCH IN LMPROVED ASSISSMENT OF SOFTWARE MELIABLLITY Serfozo Chang SXTERIOR ACTHODS FOR LIVENR PROGRAMMING VIA INCENTIVE representing, virieting, and updating undertaint STOCHASTIC NETWORK PROC'USES Seorge Assminaton University Mestern Michigan Iniversity dom Maxico State Inivariaty Florids Atlantic University TO STATE STANDINGS seorgia Instatute of Tech IN THE SETAPE 2307LEA Univ of California Jaky of Rochestor TITLE (CONT.) SASTITUTION: CELIDNOIS

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ORDER-RECURSIVE AFTHOOS FOR MOAPTIVE TOFUTIFICAT STRUCTURES WITH APPLICATIONS FOR CONTROL UNIX of California	ION OF FLEXISLE Jabbarz	ų.	N 24 02/08/91 \$108.040	JACOBS 91-NM-329	
CAASERT) DYNAMIC CONSTRAINT NETWORKS Univ of California	Peurl	Papri	N 12 23/09/91 5267,304	HAKSHAN 91-NM-376	
JIRECT COMPUTATION OF CONTROL INFORMATION FROM NONLINEAR MODELS toroling State University	ONLINEAR IMPLICIT Camudell	Stephen	N 36 09/09/91 \$193,891	JACOBS 91-NM-359	
CASSERT) DPTIMIZATON PROBLEMS IN =UNCTION SPACES Horth Carolina State University	Kallev	. 1.	N 23/09/91 193,618	GLASSMAN 91-NM-377	
THEORETICAL AFROGYAANICS Wensselver Polytechnac Institute	Cole	Julian	2 26/07/91 26/07/91 \$92,442	A NACHMAN 91—NM—322	\$92,442 01/11/91 \$92,442
MATHEMATICAL MODELS OF NON-LINEAR MECHANICAL AND Systems and their Jualitative Behavior Remsselaep Polytechnic Institute) ELECTRICAL Levi	Y La	N 02/08/91 \$256,170	A NACHWAN 91-WM-330	\$68°296 01/12/91 \$256°170
SECLARATIVE OFJECT-ORIENTED PROGRAMMING RUTGETS, The State University	Sheu	Phillip Chen-Yu	N 24 12/07/91 \$124,935	HOLLAND 91-NM-311	
TARGET RECOGNITION SY IMAGE DECOMPOSITION USING ROUPS WITH PARALLEL IMPLEMENTATION BY A LATTICE ILLINOIS Institute of Technology	GUASSIAN WAVELET S BASED NEURCOMPUTER Ben-Aria	Jezekiel	N 01/07/91 \$231,856	EAKSHAN 91-NA-310	
DECIDING IN FIME	O'Amerosie	Sruce	N 12/07/91 8277-193	WAKSHAN 91-NM-316	

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PROPOSAL STATUS REPORT (1 JUL 31 - 30 SEP 91) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH Directorate of Mathematical & Lyformation Sciences

INITIATE START DATE TOT ANT \$263,711 01/01/92. 30/09/91 1816,501 STATUS PROGRAM MANAGER PROPOSAL # 91-NM-356 91-NM-341 91-NH-365 91-NH-336 91-NH-332 91-NN-338 91-NM-352 91-NM-324 91-NH-374 NACHMAN HOLLAND A JACOBS SJOGREN NACHMAN WAKSMAN JACOBS JAC 08 S JACOBS TYPE/MONTHS RECEIVED N 24 35/09/91 N 24 07/08/91 N 36 02/08/91 N 24 17/09/91 23/08/91 \$293,832 14/08/91 0, :139,874 13/08/91 1154,831 \$516,501 \$223,084 171,399 161,340 36 24 16/80/10 19/00/61 THOOMY z U Nagesman Aichard Charles Uy-toi Janiel Layne Layne Barry しんいし COMPUTATIONAL ACTIONS FOR CONTROL AND OPTIMAL DESIGN OF AEROSPACE CONFOUNDING IN REJULARE SINGLE REPLICATE FACTORIAL EXPERIMENTS POLICHING AND SRINGING OF ALACCAFT CANOPIES AND OTHER OPTICAL TASTISHAN THEORY AND APPLICATION OF HOMOTOPY TECHNISUES IN NONLINEAR PROSRAMMING AND CONTROL SYSTEMS TELEMENT POLYTechnic Inst & State Univ HOMOTOPY CONVERGENCE THEORY FOR MONLINEAR PROSRAMING AND Coopersan MULTI-SENSOR SYSTEMS DASED ON ACTIVE SENSING AND LEARNING 30 dony 1 datson なれていな V053 THE INSTITUTE FOR ADVANCED SCIENCE AND TECHNOLOGY AT THE UNIVERSITY OF PENNSYLVANIA H311 COMPRESSIBLE VORFEX FLOWS AND COMPRESSIBLE STABILITY 30 ć SPMSOR SELECTION IN MULTIVARIABLE CONTROL Wirmings Polyteconic Inst & State Univ CONTACL SYSTIMS Virtinia Polytechnic Inst & State Univ Obio State Univ Assemble Foundation bracht State University 11d Jominion University Univ of Pennsylvania Jair of Pittsburgs Univ of Washington TITLE (COME.) NCILOLILSNI SKILSAS SURFACT

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INITIATE START DATE TOT ANT	\$125,000 01/01/92 \$395,466				\$100.000 01/02/92 \$330.000		\$45,572 01/12/91 845,572	\$58.954 01/01/92 \$58.954	\$99.440 01/12/92 \$99.440
STATUS Program Manager Proposal 8	A LUPO 91-NM-361	NACHHAN 91-NM-326	SJOGREN 91-NA-375	NACHMAN 91-NM-366	A Haksman 91-nm-307	SJOGREN 91-NM-381	A SJOGREN 91-NA-328	GLASSHAN 91-nm-331	GLASSMAN 91-NM-367
TYPE/MONTHS PECEIVED Amount	N 12/09/91 \$395•466	N 12 01/09/91 \$59,558	N 36 20/09/91 3301,423	2 12 17/09/91 \$197 ₀ 275	N 36 01/07/91 \$374,142	N 36 30/09/91 \$105,338	V 02/08/91 \$45,572	12 02/08/91 \$54,954	4 24 11/09/91 \$ 198,480
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INVESTIGATOR	G FINE-GRAINED SIGNAL PROCESSING O'Hallaron	REPONSE OF A COMPLCX SYSTEM SINKA	KANDOM FIELDS AND CHAINS AS APPLIED Fishman	TO ELECTROMAGNETIC PULCES IN TISSUE Moses	MODELS FOR GENEPIC DEJECT Stark	USING THE MAVELET TRANSFORM Prescott	3257-7ASIS MAVELET METHODS Mickerhauser	FOR INTEGER NETWORKS WITH SIDE CONSTRAINTS:NG AND SCHEDULING Kennington	STRUCTURE IN LARGETICALE USAR OPTIMIZATION School
FIFLE (C3'1T.) INSTITUTION	AUTOMATIC TOULS FOR DEVELOPING PRUSRAMS ON MULTICUMPUTERS Garnegle-Wellon University	ENHANCING THE ELECTPOMAGNETIC Univ of New Nexico	DESIGN AND BNALYSIS JF MARKOV KANDOM FIFLDS TO COMPUTATIONAL PROBLEMS Jaiv of North Cafolina	RESEARCH ON ACOUSTIC COUPLING TO Harry 3. Moses Applimath	DEVELOPMENT OF FUNCTION-SASED RECOGNITION July of South Florids	(AASERT) LPI SIGNAL DETECTION USING THE University of Kansas	FEATURE EXTRACTION OF SCST-3AN Washington University	JPTIMIZATION ALGORITHMS FOR INFOR AND FOR AND FOR AND SOUTHWEN METHODIST University	CKPLUITING SPECIAL STRUCTURY MOJELS Wawal Post Graduate School

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PROPOSAL STATUS REPORT (1 JUL 91 - 30 SEP 91) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH SIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

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SIGNAL PROCESSING APPLICATIONS OF MAVELET THEORY	>		N 12 19/09/91	SJOGREN	\$70.000 15/10/91
Air Force Institute of Tachnology	reter	Bruce	000 088	91-NM-372	\$70,000
LEARNING PARALLEL VISION ALGORITHMS			N 36 12/07/91	LAKSHAN	
Massachusetts Institute of Technology	Poggto	Tonaso	1351,520	91-88-314	
CUEING AND RECOGNITION			36 N	VAKSHAN	
Massachusetts Institute of Tecnnology	Ullean	Shimon	\$329,982	91-NM-318	
PARALLEL AND DISTRIBUTED COMPUTING AND COMBINATOR	ORIAL ALGORITHMS		N 21 17/09/91	GLASSHAR	\$125,605
Massachusetts Institute of Technology	Laighton	Frank	\$317,541	91-NM-370	\$317,541
	FRACTAL SIGNALS		36	290TV	
USING MAVELETS Massachusetts Institute of Technology	Oppenheim	Alan	\$281,656	91-NM-371	
THEORETICAL STUDIES OF ULTRAFAST PHENOMENA			N 36	RACHERN	
Columbia University	Potasek	x	\$393,498	91-NM-345	•
(AASERT) COMPUTATIONAL FLUID TYNAMICS			N 36	MACHEAN	
yes fork University	Garsbedian	Paul	\$131,960	91-NN-362	
RELIABLE COMMUNICATION IN THE PRESENCE OF SEVERE	RE NOISE OR		R 12	SLASSEAR	\$99,105
INTERFERENCE California institute of Technology	McEliece	Robert	\$99,105	91-NR-303	199,105
ADAPTIVE NEURAL NETHORKS			N 36 19/08/91	SUDDARTH	
Johns Hopkins University	Andreou	Andreas	\$284,431	91-NM-342	

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TITLE (CONT.) INSTITUTION	NVESTZSATOR	-	TYPE/HONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT ANT
SURFACE PROPERTIES OF REFRACTORY TRANSITION METAL	CARBIDES	-	96 N	4 M	\$174,078
Linfield ?>search idstitute	11 A P	Thed	5472.010	91-NP-168	\$472,610
FORMATION AND CHMANGEMENT OF MC-) IOMS IN A MAGNETICALLY F MULTICUSP ION SOURCE/MEASUREMENT OF MEUTRAL ATOM/MOLECULAR Lawrence Betreley Laboratory	ILTERED	8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 -	N 12 16/07/91 \$157,325	A LUPO 91-NP-194	\$157.925 01/10/91 \$157.925
ADVANCED TECHNOLUGIES FOR HIST-TESSLUTION SPECTROSCOPY	SCOPY		N 12 15/07/91	KELLEY	
lational Inst. of itandards is Technology	ineland	David	165,000	91-NP-183	
TMASING THE CARTH'S TUTERIOR—DETAILEDSTUDIES OF T C STRUCTURE LITH YEW GLOSAL AND POTTATES ARRAYS Lational Science Foundation	HE ERRTA'S SEISMI	Janiel \$3	3 09 04 5 000 53 04 5 0 000	LEWKOWICZ 91-NP-190	
SPACETIME PHYSICS (LAME JRA-90-4333) (GCT3-DK1-L3	(75)		4 12 16/07/91	¥ odn1	\$200,000
Los Alamos vatel Liberippl Theor Phys Jv	iiller Ha	- Arner	\$200,000	91-44-185	\$200,000
UV EMISSION CROSS SECTIONS BY ELECTPON LAPACT: APPLICATION TO UV DAYGLOW AND AURORAL SATELLITE D MASA — Watl Apromautical and Space Admin	99SERVATIONS Ajello	Joseph	12 13/07/91 5131,600	A SI-NP-187	\$131,600 01/10/91 \$131,600
SECTRON-SEAM CONTROLLCO SIMICONDUCTOR SWITCHES			N 12 16/07/91	LUPO	\$50.000
31d Josinion University	Schoenbach K.	Karl	\$50°000	91-NP-186	\$50,000
CXPURIMENTS ATTH FRAPPED NEWTRAL AFOMS			N 12	A KELLEY	\$66,000
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	INITIATE START DATE TOT AMT	\$30,000 30/69/91 \$70,000	\$100,000 30/09/91 \$600,000	\$99,622 30/09/91 \$300,000	\$92,700 30/09/91 \$300,000
PAGE 1	STATUS Program Manager Proposal &	A OMENS 91-EK-019	A OWENS 91-EX-020	A OWENS 91-EX-018	A OVENS 91-EX-021
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REPORT DATE 11/76/91	FITE (CONT.) ENSTITUTION	PROPERTIES OF NEW MATERIALS RELEVANT TO EVERGY	IMPLEMENTATION OF THREAT DISCAIMINATION LY MOTION PASSIVE ALTBURNE MARNING SYSTEM (PANS) ELISRA Flectronic Sys Ltd——Airborne Sys	ACOUSTO-OPTIC FREQUENCY SHIFTERS IN DUAL-CORE OPI	FIB4E-COUPLED REMOTE OPTICAL VIORDMETRY Jnzw of Southampton

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PROPOSAL STATUS REPORT (1 JUL 91 - 30 SEP 91) AIR FORCE UFFICE OF SCIENTIFIC RESEARCH DIRECTURATE OF PLANS AND OPERATIONS

TITLE (CONT.) ENCITHIEN	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal 4	INITIATE START DATE TOT ANT
MATIONAL SPACE COUNCIL VICE PRESIDENTES SPACE P) (VPSPAB) SUPPORT A Inalytic Services Inc	PPLICY ADVISORY 30AR =inn	9: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N 03 26/07/91 84,500	A YORK 91-X0-030	\$4,500 01/09/91 \$4,500
IMAGING THE CARTH'S INTERIOR—DETAILED STUDIES OF THE EARTH'S SEISM IC STOUCTURE WITH NEW GLOTAL AND PORTAGLE ARRAYS Wational Sciency Foundation	OF THE GACTHOS SEISM AYS ACELL	Dantel	N 02 38/09/91 \$3,945,000	A YORK 91-X0-031	\$3,845,000 01/08/91 \$3,845,000
NFL LISRARY Warsh Kesearch Luborstory	stackbole	Laurie	и 01 14/08/91 \$2,900	A OWENS 91-X0-032	\$2,900 01/08/09 \$2,900
rest case for col stolls air Force Uffice of Scientific Research	scientist	idiot	108/17 11/08/91 80	A EVING 91-X0-033	\$0 30/09/91 \$15,185
SAMPLE CASE Air Force Office of Scientafic Research	LKFJ:LAKJ	Sickol	4 23/08/91 \$231,000	A EWING 91-X0-034	
TRAVEL FUNDS FOR SELLER MRSTING AFIT Air Force Instituts of Technology	Beller	0enis	N 03 19/07/91 \$10,000	A EWING 91-x0-029	\$2,633 01/07/91 \$10,060

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